

# ESB20-20N-06



## ESB20-20N-06 Installation Contactor



### General Information

Extended Product Type	ESB20-20N-06
Product ID	1SBE121111M0620
EAN	3471523007505
Catalog Description	ESB20-20N-06 Installation Contactor
Long Description	<p>The ESB20...N installation contactors are used to control single loads up to 20 A and can be operated by AC or DC voltages.</p> <p>These contactors are made for use in household applications as well as in industrial environments. The following benefits are provided:</p> <p>Hum-free operation, low power consumption and integrated overvoltage protection.</p> <p>Various contact combinations and accessories are available.</p>

### Ordering

Package Level 1 EAN	3471523005112
Minimum Order Quantity	12 piece
Customs Tariff Number	85365080

### Popular Downloads

Data Sheet, Technical Information	2CDC103036C0201
Instructions and Manuals	2CDC103043M6801

### Dimensions

Product Net Width	18 mm
Product Net Height	86 mm
Product Net Depth / Length	65 mm
Product Net Weight	0.14 kg

### Technical

Rated Operational Voltage	Main Circuit 220 V DC Main Circuit 250 V AC
Rated Control Circuit Voltage ( $U_c$ )	230 V
Rated Frequency (f)	Control Circuit DC Control Circuit 50 Hz Control Circuit 60 Hz Control Circuit 400 Hz

	Main Circuit DC Main Circuit 50 Hz Main Circuit 60 Hz
Rated Operational Current AC-1 ( $I_e$ )	(NO) 20 A
Rated Operational Current AC-3 ( $I_e$ )	(230 V) Single Phase, NO 9 A
Rated Operational Power AC-1 ( $P_e$ )	(230 V) Single Phase, NO 4.6 kW
Rated Operational Power AC-3 ( $P_e$ )	(230 V) Single Phase, NO 1.3 kW
Rated Operational Current AC-7a ( $I_e$ )	(NO) 20 A
Rated Operational Power AC-7a ( $P_e$ )	(230 V) Single Phase, NO 4.6 kW
Rated Operational Current AC-7b ( $I_e$ )	(230 V) Single Phase, NO 9 A
Rated Operational Power AC-7b ( $P_e$ )	(230 V) Single Phase, NO 1.3 kW
Recommended Screw Driver	Control Circuit Pozidriv 1 Main Circuit Pozidriv 1
Rated Impulse Withstand Voltage ( $U_{imp}$ )	6 kV
Rated Insulation Voltage ( $U_i$ )	acc. to IEC 60947-4-1 and VDE 0110 (Gr. C) 400 V
Connecting Capacity Main Circuit	Flexible with Ferrule 1x 1 ... 6 mm <sup>2</sup> Flexible with Ferrule 2x 1 ... 2.5 mm <sup>2</sup> Flexible with Insulated Ferrule 1x 1 ... 6 mm <sup>2</sup> Flexible with Insulated Ferrule 2x 1 ... 1.5 mm <sup>2</sup> Flexible 1x 1 ... 6 mm <sup>2</sup> Flexible 2x 1 ... 4 mm <sup>2</sup> Rigid 1x 1 ... 10 mm <sup>2</sup> Rigid 2x 1 ... 4 mm <sup>2</sup>
Connecting Capacity Control Circuit	Flexible with Ferrule 1x 1 ... 2.5 mm <sup>2</sup> Flexible with Ferrule 2x 0.75 ... 1.5 mm <sup>2</sup> Flexible with Insulated Ferrule 1x 1 ... 2.5 mm <sup>2</sup> Flexible with Insulated Ferrule 2x 0.75 ... 1 mm <sup>2</sup> Flexible 1x 1 ... 2.5 mm <sup>2</sup> Flexible 2x 1 ... 1.5 mm <sup>2</sup> Rigid 1x 0.5 ... 4 mm <sup>2</sup> Rigid 2x 0.75 ... 2.5 mm <sup>2</sup>
Tightening Torque	Control Circuit 0.9 N·m Main Circuit 1.2 N·m
Wire Stripping Length	Control Circuit 7 mm Main Circuit 10 mm
Degree of Protection	IP20
Electrical Durability	AC-1 (NO) 150000 cycle AC-3 (NO) 150000 cycle AC-7a (NO) 150000 cycle AC-7b (NO) 150000 cycle
Mechanical Durability	1000000 cycle
Number of Poles	2
Number of Main Contacts NC	0
Number of Main Contacts NO	2
Width in Number of Modular Spacings	1
Pollution Degree	3

## Environmental

Ambient Air Temperature	Operation -25 ... +55 °C Storage -40 ... +80 °C
Maximum Operating Altitude Permissible	2000 m
Resistance to Shock acc. to IEC 60068-2-27	11 ms Pulse 15g
RoHS Status	Following EU Directive 2011/65/EU

## Technical UL/CSA

Maximum Operating Voltage UL/CSA	Main Circuit 240 V AC
Horsepower Rating UL/CSA	(220 ... 240 V AC) Single Phase, NO 1 Hp
Connecting Capacity Main Circuit UL/CSA	Solid 14-8 AWG Stranded 14-8 AWG
Connecting Capacity Control Circuit UL/CSA	Solid 16-10 AWG Stranded 16-10 AWG
Tightening Torque UL/CSA	Control Circuit 8 in-lb Main Circuit 11 in-lb

## Certificates and Declarations (Document Number)

CB Certificate	1SAA920007-2001
CCC Certificate	1SAA920005-3801
cULus Certificate	cUL E191658
Declaration of Conformity - CE	1SAD938501-0302
Instructions and Manuals	2CDC103043M6801
RoHS Information	1SAD938501-0368

## Container Information

Package Level 1 Units	12 piece
Package Level 1 Width	222 mm
Package Level 1 Height	69.5 mm
Package Level 1 Depth / Length	88.5 mm
Package Level 1 Gross Weight	1.68 kg
Package Level 1 EAN	3471523005112

## Classifications

Object Classification Code	Q
ETIM 5	EC001653 - Installation contactor for distribution board
ETIM 6	EC001653 - Installation contactor for distribution board
ETIM 7	EC001653 - Installation contactor for distribution board
eClass	7.0 27142308
UNSPSC	39121529

## Categories

Low Voltage Products and Systems → Control Products → Contactors → Installation Contactors

Low Voltage Products and Systems → Modular DIN Rail Products → Modular DIN Rail Components MDRCs → Installation Contactors

